YOUR GUIDE TO MAINTAINING
THE PELTON & CRANE VALIDATOR 8 & 10 STERILIZERS

"The Alternate Source"®

Replacement Parts Industries, Inc. is pleased to present this valuable work tool that can help save you and your customers time and money. Take a look, you will find a Troubleshooting Guide, block diagrams, exploded views and a complete listing of all RPI parts that fit the Pelton & Crane Validator 8 & 10 sterilizers. It's all here, in one easy-to-use tool. Keep it close by – in your RPI catalog or at your workbench.

TROUBLESHOOTING

SYMPTOM	ANALYZE	REMEDY
MINERAL BUILD-UP INSIDE OF CHAMBER.	TYPE OF WATER THAT IS BEING USED.	CLEAN INSIDE OF CHAMBER THOROUGHLY. REFILL USING DISTILLED WATER.
STERILIZER TAKES OVER 15-20 MINUTES (FROM A WARM START) TO REACH SET STERILIZATION TEMPERATURE	CHAMBER LOAD.	PLACE FEWER PACKAGES INSIDE CHAMBER.
	BELLOWS.	REPLACE IF NECESSARY. (RPI PART # PCB001)
	LINE VOLTAGE.	IF LINE VOLTAGE IS TOO LOW PLUG INTO OUTLET WITH PROPER VOLTAGE. CONTACT QUALIFIED ELECTRICIAN.
	SOLENOID VALVES.	REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION) TO IDENTIFY LEAKS.
DISPLAYED TEMPERATURE STAYS CONSIDERABLY BELOW REQUIRED TEMPERATURE FOR STERILIZATION CYCLE.	RIBBON CABLE.	IF NECESSARY REPLACE RIBBON CABLE (RPI PART #PCC108)
	BELLOWS.	IF NECESSARY REPLACE BELLOWS (RPI PART #PCB001).
	DUMP VALVE. REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION)	IF NECESSARY CLEAN DUMP VALVE AND/OR REPLACE VALVE KIT (RPI PART #PCK106). SEE PANEL 8.
WET PACKS AFTER DRYING CYCLE IS COMPLETE OR WET PACKS BETWEEN LAYERS.	CHAMBER LOAD.	BREAK STERILIZATION LOAD INTO FEWER OR SMALLER PACKS/WRAPS FOR PROPER STEAM STERILIZATION. CRACK DOOR OPEN ~1" DURING DRYING CYCLE.
	FILL-LINE FILTER CONDITION AND POSITION ON CHAMBER FLOOR.	REPLACE FILL-LINE FILTER AND/OR ADJUST FILTER TO CENTER BOTTOM OF CHAMBER (RPI PART #PCF009)
WATER IN BOTTOM OF STERILIZER WHEN UNIT IS NOT IN **FILL** CYCLE.	FILL VALVE.	CLEAN FILL VALVE AND /OR REPLACE VALVE KIT. (RPI PART #PCK102) SEE PANEL 8.
WATER DRIPPING FROM DOOR WHEN DOOR IS OPENED AFTER CYCLE.	SPACER (DOOR).	CHECK SPACER FOR SHRINKAGE OR DAMAGE. REPLACE IF NECESSARY. (RPI PART #PCS067)
WHEN UNIT VENTS, WATER COMES OUT OF FILL PORT ON TOP OF CASE.	WATER LEVEL INSIDE RESERVOIR.	DRAIN WATER TO THE BOTTOM HOLES OF FILL CUP.
STERILIZER FAILS SEVERAL SELF-TESTS, BUT STILL OPERATES.	CABLE CONNECTIONS.	MAKE SURE CABLE CONNECTORS AT FRONT PANEL AND POWER BOARD ARE GOOD.
STERILIZER DOES NOT TURN ON.	CABLE AND ON/OFF SWITCH (POWER LED ON POWER SUPPLY BOARD SHOULD BE ILLUMINATED.)	CHECK MICROPROCESSOR BOARD ON/OFF SWITCH AND CABLE WITH OHMMETER TO VERIFY CONTINUITY*.
		IF SWITCH AND CABLE PASS TEST, REPLACE POWER SUPPLY BOARD.
STERILIZER DOES NOT SWITCH MODES.	GAP BETWEEN PANEL MEMBRANE AND SWITCHES MOUNTED ON MICROPROCESSOR BOARD.	CHECK BETWEEN MICROPROCESSOR BOARD AND PANEL MEMBRANE FOR WASHERS OR MATERIALS CAUSING INCORRECT SEPARATION. REPLACE MICROPROCESSOR BOARD IF NOT CORRECTABLE.

SELF-DIAGNOSTIC CHECK

The Validator sterilizer will perform a self diagnostic test on eight key components. Start the check by depressing and holding the START/CLEAR switch while you depress, then release the POWER switch. The sterilizer will beep once, indicating the beginning of the self-diagnostic procedure. Use the table below for description of tests.

SEQUENCE NUMBER	DISPLAY	CHECKED COMPONENTS	VERIFYING OPERATIONAL FUNCTION
1	**GO/NO**	PRESSURE SENSOR ON TEMP/PRESSURE PCB	CONTINUITY*.
2	**GO/NO**	STEAM SENSOR	CONTINUITY*. OEM UNITS WILL FAIL IF TEMPERATURE AT SENSOR IS COLDER THAN 20°C. ALLOW STERILIZER TO WARM-UP AND REPEAT TEST.
3	**GO/NO**	SURFACE SENSOR	CONTINUITY*.
4	**BLUE WINDOW**	DISPLAY OF kPa/°C/Min	SEVEN SEGMENT DISPLAY IS CHECKED.
5	**PANEL LEDS**	CYCLE AND PROGRAM/POWER INDICATOR LIGHTS	ILLUMINATION OF INDICATOR LIGHTS.
6	**GO/NO**	VENT SOLENOID	VENT SOLENOID OPERATION AND CONTINUITY*. (DISPLAYS **GO** EVEN IF SOLENOID STICKS. CHECK THAT PLUNGER ACTUATES.)
7	**GO/NO**	FILL SOLENOID	FILL SOLENOID OPERATION AND CONTINUITY*. (DISPLAYS **GO** EVEN IF SOLENOID STICKS. CHECK THAT PLUNGER ACTUATES.)
8	**GO/NO**	DUMP SOLENOID	DUMP SOLENOID OPERATION AND CONTINUITY*. (DISPLAYS **GO** EVEN IF SOLENOID STICKS. CHECK THAT PLUNGER ACTUATES.)

* CONTINUITY DEFINITION: AN ELECTRICAL TEST FOR DETERMINING WHETHER A CONNECTION IS BROKEN.

RPI PARTS ARE MANUFACTURED BY REPLACEMENT PARTS INDUSTRIES,INC. TO FIT PELTON & CRANE EQUIPMENT. VALIDATOR IS A REGISTERED TRADEMARK OF PELTON & CRANE. ©RPI, 2002 (REV A 01/02)

ALARMS

When there is an operating alarm, the sterilizer will “beep” for one minute if not corrected by the user. The type of alarm will flash in the “°C/Min.” window. The alarm code is displayed until the user presses the “CLEAR/START” button. The door alarm is extinguished once the door is properly closed. See the table below and to the right for problems and corrective actions when an alarm is encountered.

ALARM DISPLAY	ALARM DESCRIPTION	PROBLEM	CORRECTIVE ACTION
door	THE **DOOR** ALARM INDICATES THAT THE DOOR SWITCH IS NOT ACTIVATED AND EITHER THE DOOR IS OPEN OR IS NOT CLOSED PROPERLY. THE DOOR MUST BE PROPERLY CLOSED TO INITIATE A STERILIZATION CYCLE.	DOOR IS NOT COMPLETELY CLOSED. IMPROPER ALIGNMENT OF DOOR SWITCH.	CHECK THAT DOOR IS PROPERLY CLOSED. REALIGN DOOR SWITCH TO MAKE BETTER CONTACT WITH DOOR LATCH.
		DEFECTIVE SWITCH, FAULTY WIRE OR CONNECTION.	WHEN DOOR IS PROPERLY CLOSED, CHECK DOOR CIRCUIT FOR CONTINUITY*. THE DOOR SWITCH CABLE PLUGS INTO THE FRONT PORTION OF THE POWER BOARD. REFER TO PANEL 7.
SENS	A **SENS** (SENSOR) ALARM INFORMS THE USER THAT THERE IS A PROBLEM WITH THE CHAMBER SENSOR OR SENSOR CIRCUITRY.	STEAM SENSOR HAS A BAD/POOR CONNECTION OR IS NOT PLUGGED INTO PRESSURE/TEMPERATURE BOARD.	CHECK CONNECTOR AND WIRING WHERE UNIT PLUGS INTO TEMPERATURE/PRESSURE BOARD. REFER TO PANEL 7.
		FAULTY STEAM SENSOR.	CHECK STEAM SENSOR FOR CORRECT SENSOR READINGS, REFER TO PANEL 7 FOR BOTH RPI AND OEM SENSORS.
FAIL	WHEN **FAIL** IS DISPLAYED ON THE FRONT PANEL, THIS INDICATES THAT THERE WAS NOT ENOUGH TIME AVAILABLE TO COMPLETE A PROPER STERILIZATION CYCLE. IF THE UNIT COULD NOT BUILD OR MAINTAIN PRESSURE, THE FAIL ALARM WOULD BE DISPLAYED.	NOT ENOUGH WATER INSIDE CHAMBER.	FILL RESERVOIR WITH DISTILLED WATER. REPLACE DIRTY OR CLOGGED FILL FILTER (RPI PART #PCF009).
		VALVE(S), FITTING(S) OR TUBING HAS LEAKS.	CHECK ALL VALVES, TUBING AND FITTINGS FOR LEAKS. REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION) AND PANEL 8.
		DOOR GASKET LEAK.	REPLACE DOOR GASKET (RPI PART #PCG065-8” OR PCG066-10”) IF CRACKED OR NOT PROPERLY SEALING. (SHRUNK)
		OVERLOADED CHAMBER CAUSING UNIT TO TAKE TOO MUCH TIME TO REACH SET TEMPERATURE/PRESSURE.	CHECK THAT THERE IS SUFFICIENT SPACE FOR STEAM CIRCULATION. REMOVE EXCESS PACKS OR INSTRUMENTS. DO NOT OVERLOAD INSTRUMENT TRAYS.
		FAULTY BELLOWS AND/OR VALVE SEAT.	BELLOWS (RPI PART #PCB001) SHOULD BE COMPRESSED WHEN STERILIZER IS COLD AND EXPANDED STRAIGHT WHEN HOT. VALVE SEAT (RPI PART #PCS124) SHOULD BE CLEAN AND FREE OF NICKS AND SCRAPES. REPLACE IF NECESSARY.
		STERILIZER COUNTDOWN INTERRUPTED FOR MORE THAN THREE MINUTES DUE TO STEAM LEAK (PRESSURE > 206KPA).	CHECK ALL VALVES, TUBING, FITTINGS, AND DOOR GASKET FOR STEAM ESCAPING. REPAIR OR REPLACE AS NECESSARY. REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION) AND PANEL 8.
		IMPROPER LEVELING OF UNIT.	ADJUST FRONT LEVELING FEET GAP ~ 3/4” TO 7/8”.
		MISSING OR DAMAGED LEVELING FEET.	REPLACE AND ADJUST GAP IF NECESSARY. (RPI PART #PCF180)
		HEATER HAS NO POWER OR PARTIAL POWER: OVERHEAT THERMOSTAT DEFECTIVE.	CHECK THAT OVERHEAT THERMOSTAT IS CLOSED. (RPI PART #PCT097). REPLACE IF NECESSARY. REFER TO PANEL 7.
		TRIAC DEFECTIVE.	CHECK RESISTANCE OF TRIAC (RPI PART #PCA084). REPLACE IF NECESSARY. REFER TO PANEL 7.
		HEATER DEFECTIVE.	CHECK RESISTANCE OF HEATER (RPI PART #PCH095 OR PCH096). REPLACE IF NECESSARY. REFER TO PANEL 7.

*Continuity definition - An electrical test for determining whether a connection is broken.

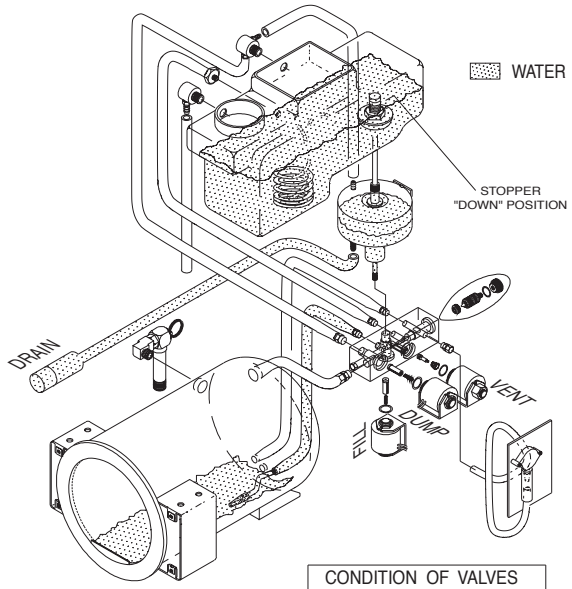
ALARMS

When there is an operating alarm, the sterilizer will "beep" for one minute if not corrected by the user. The type of alarm will flash in the "°C/Min." window. The alarm code is displayed until the user presses the "CLEAR/START" button. The door alarm is extinguished once the door is properly closed. See the table below and to the left for problems and corrective actions when an alarm is encountered.

ALARM DISPLAY	ALARM DESCRIPTION	PROBLEM	CORRECTIVE ACTION
PRES	A **PRES** (PRESSURE) ALARM APPEARS IF THE PRESSURE DISPLAYED REACHES 225 kPa. THIS USUALLY HAPPENS ON THE FIRST CYCLE WHEN THE STEAM SENSOR BODY IS COLD. THIS IS THE RESULT OF THE STEAM TEMPERATURE LAGGING BEHIND THE PRESSURE IN THE CHAMBER OF THE STERILIZER.	PRESSURE TOO HIGH IN CHAMBER. VERIFY BY RUNNING ANOTHER CYCLE. IF ALARM REPEATS, CHECK FOR FAULTY PRESSURE/TEMPERATURE BOARD.	IF RPI PRESSURE/TEMPERATURE BOARD IS INSTALLED, REPLACE USING RPI PART #PCB098. IF OEM PRESSURE/TEMPERATURE BOARD AND SENSOR IS INSTALLED, REPLACE USING RPI PRESSURE/TEMPERATURE CONVERSION KIT (RPI PART #PCK149).
		FAULTY STEAM SENSOR.	IF RPI STEAM STENSOR IS INSTALLED, REPLACE USING RPI PART #PCS100.
			IF OEM STEAM SENSOR IS INSTALLED, REPLACE USING RPI PRESSURE/TEMPERATURE CONVERSION KIT (RPI PART #PCK149).
		AIR VENT BELLOWS DEFECTIVE, PREVENTING STEAM FROM FLOWING BY STEAM SENSOR RESULTING IN AN INCORRECT TEMPERATURE READING.	BELLOWS SHOULD BE COMPRESSED, NOT EXTENDED WHEN STERILIZER IS COLD. REPLACE BELLOWS IF NECESSARY USING RPI PART #PCB001.
		HEATER ALWAYS HAS POWER.	CHECK THAT HEATER LED SHUTS OFF AS STERILIZER REACHES SET TEMPERATURE. CHECK RESISTANCE OF TRIAC – REFER TO PANEL 7. IF RESISTANCE OF TRIAC IS CORRECT, REPLACE THE STERILIZER SUPPLY POWER BOARD.
		NO INCREASE IN DISPLAYED TEMPERATURE THROUGH STERILIZATION CYCLE.	VERIFY THAT STEAM SENSOR WIRES ARE PROPERLY CONNECTED AND CONNECTOR IS PLUGGED IN PROPERLY. FOR CORRECT SENSOR READINGS, REFER TO PANEL 7 FOR BOTH RPI AND OEM SENSORS. IF STEAM SENSOR IS DEFECTIVE AND RPI PRESSURE/TEMPERATURE CONVERSION KIT (RPI PART #PCK149) IS INSTALLED, REPLACE STEAM SENSOR USING RPI PART #PCS100. IF STEAM SENSOR IS GOOD, REPLACE PRESSURE/TEMP BOARD (RPI PART #PCB098). IF OEM PRESSURE/TEMPERATURE BOARD AND SENSOR IS INSTALLED, REPLACE USING RPI PRESSURE/TEMPERATURE CONVERSION KIT (RPI PART #PCK149).
		OEM TEMPERATURE/PRESSURE MODULE OUT OF CALIBRATION.	REPLACE USING RPI PRESSURE/TEMPERATURE CONVERSION KIT (RPI PART #PCK149).
H2O	AN **H2O** ALARM DISPLAYS WHEN THE FRONT BOTTOM SURFACE OF THE STERILIZER CHAMBER BECOMES TOO HOT. (NOTE: MOST LIKELY THE CHAMBER HAS RUN DRY OR THERE IS AN INSUFFICIENT AMOUNT OF WATER FOR STERILIZATION.)	NOT ENOUGH WATER INSIDE CHAMBER.	FILL RESERVOIR WITH DISTILLED WATER. REPLACE DIRTY OR CLOGGED FILL FILTER (RPI PART #PCF009).
		DOOR GASKET LEAK.	REPLACE DOOR GASKET (RPI PART #PCG065-8" OR PCG066-10") IF CRACKED OR NOT PROPERLY SEALING. (SHRUNK)
		FAULTY BELLOWS AND/OR VALVE SEAT.	BELLOWS (RPI PART #PCB001) SHOULD BE COMPRESSED WHEN STERILIZER IS COLD AND EXPANDED STRAIGHT WHEN HOT. VALVE SEAT (RPI PART #PCS124) SHOULD BE CLEAN AND FREE OF NICKS AND SCRAPES. REPLACE IF NECESSARY.
		FITTING, TUBING, VALVE BLOCK OR VALVES HAVE LEAKS.	CHECK ALL FITTINGS, TUBING AND VALVE BLOCK FOR LEAKS – REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION) AND PANEL 8.
		CHAMBER FILLS PROPERLY, BUT IS DRY WHEN DOOR IS OPENED AFTER ALARM.	FILL VALVE NOT CLOSING PROPERLY, WATER IS PUSHED BACK INTO RESERVOIR WHEN PRESSURE STARTS TO INCREASE. REFER TO PANEL 5 (WATER RESERVOIR LEAK IDENTIFICATION). CLEAN AND/OR REPLACE FILL VALVE KIT. REFER TO PANEL 8 (RPI PART # PCK110)
			REPLACE ENTIRE FILL SOLENOID VALVE.
		CHAMBER DOES NOT FILL WITH WATER DURING FILL CYCLE.	FILL VALVE CLOGGED OR STAYING IN CLOSED POSITION. CLEAN, REBUILD AND/OR REPLACE FILL SOLENOID VALVE. REFER TO PANEL 8 (RPI PART #PCK110)
		DEFECTIVE OR INCORRECTLY INSTALLED SURFACE SENSOR.	VERIFY SURFACE SENSOR READING (RPI PART #PCS099) – REFER TO PANEL 7. BE SURE SENSOR IS MOUNTED PERPENDICULAR TO CHAMBER. SEE PANEL 4.

STERILIZATION CYCLE

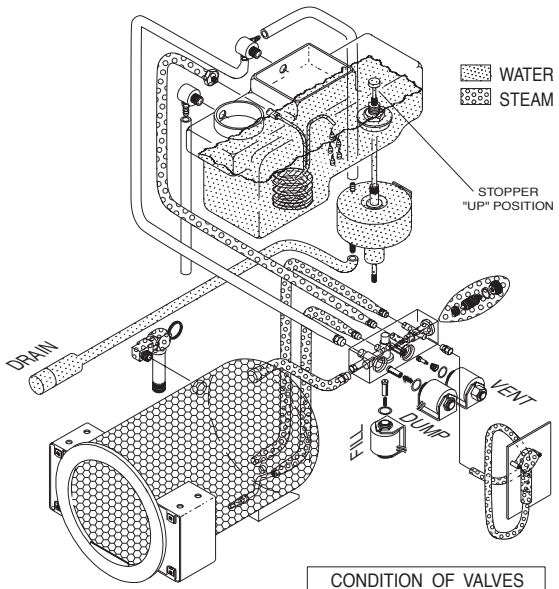
1ST STAGE – FILL MODE



		CONDITION OF VALVES DURING FILL CYCLE	
SOLENOID VALVE ID.	TYPE OF VALVE	VALVE STATUS	SOLENOID ACTIVATED
FILL	NORMALLY CLOSED	OPEN	YES
VENT	NORMALLY OPEN	OPEN	NO
DUMP	NORMALLY CLOSED	OPEN	YES

NORMALLY CLOSED: CLOSED WHEN THE COIL IS DE-ENERGIZED, OPEN WHEN ENERGIZED.
NORMALLY OPEN: OPEN WHEN THE COIL IS DE-ENERGIZED, CLOSED WHEN ENERGIZED.

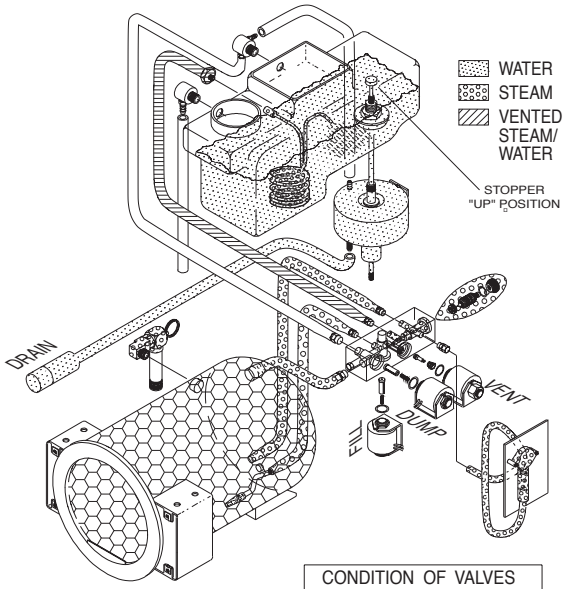
2ND STAGE – STERILIZE MODE



		CONDITION OF VALVES DURING STERILIZE CYCLE	
SOLENOID VALVE ID.	TYPE OF VALVE	VALVE STATUS	SOLENOID ACTIVATED
FILL	NORMALLY CLOSED	CLOSED	NO
VENT	NORMALLY OPEN	CLOSED	YES
DUMP	NORMALLY CLOSED	CLOSED	NO

NORMALLY CLOSED: CLOSED WHEN THE COIL IS DE-ENERGIZED, OPEN WHEN ENERGIZED.
NORMALLY OPEN: OPEN WHEN THE COIL IS DE-ENERGIZED, CLOSED WHEN ENERGIZED.

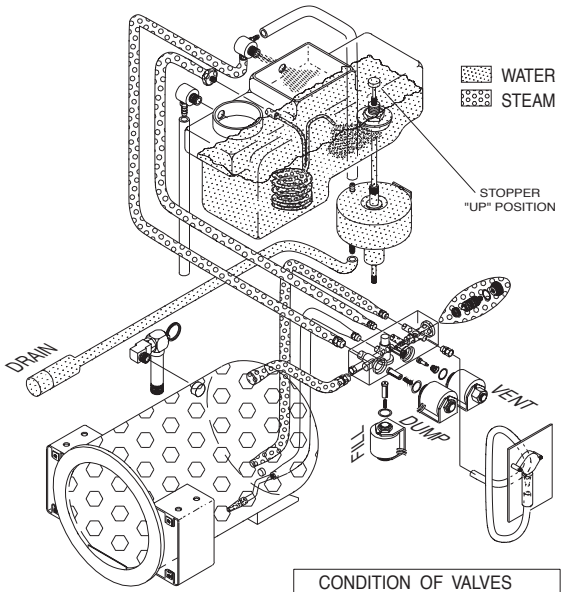
3RD STAGE – VENT MODE



		CONDITION OF VALVES DURING VENT CYCLE	
SOLENOID VALVE ID.	TYPE OF VALVE	VALVE STATUS	SOLENOID ACTIVATED
FILL	NORMALLY CLOSED	CLOSED	NO
VENT	NORMALLY OPEN	OPEN	NO
DUMP	NORMALLY CLOSED	CLOSED	NO

NORMALLY CLOSED: CLOSED WHEN THE COIL IS DE-ENERGIZED, OPEN WHEN ENERGIZED.
NORMALLY OPEN: OPEN WHEN THE COIL IS DE-ENERGIZED, CLOSED WHEN ENERGIZED.

4TH STAGE – DUMP MODE



		CONDITION OF VALVES DURING DUMP CYCLE	
SOLENOID VALVE ID.	TYPE OF VALVE	VALVE STATUS	SOLENOID ACTIVATED
FILL	NORMALLY CLOSED	CLOSED	NO
VENT	NORMALLY OPEN	OPEN	NO
DUMP	NORMALLY CLOSED	OPEN	YES (@ ≅ 20 KPA)

NORMALLY CLOSED: CLOSED WHEN THE COIL IS DE-ENERGIZED, OPEN WHEN ENERGIZED.
NORMALLY OPEN: OPEN WHEN THE COIL IS DE-ENERGIZED, CLOSED WHEN ENERGIZED.

STERILIZATION CYCLE

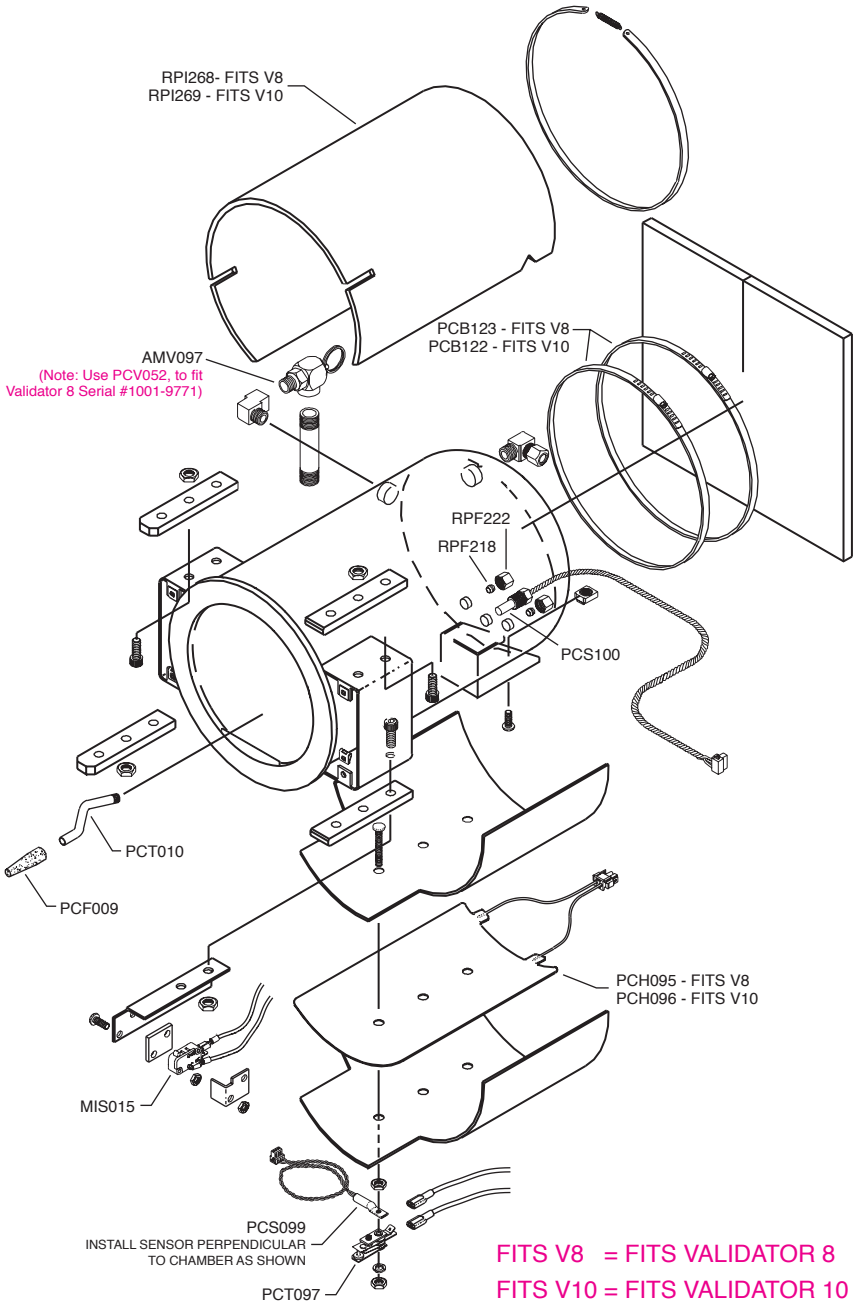
Load the sterilizer then close the door and select the proper mode. Press CLEAR/START and the front panel will display FILL as water enters the chamber from the fill tank. When filling is complete, the lower display will show the temperature. At this time full power will be applied to the heater to begin chamber warm-up. The sterilizer will begin building pressure at about 100˚C.

When the sterilization cycle begins, the Validator sterilizer is controlled by the pressure value. This is different than the other Pelton & Crane sterilizers, which are controlled by temperature. The time is displayed on the lower window of the unit. If pressure stability problems occur, the timer will pause when pressures go lower than a certain value. When the cycle pauses for more than three minutes due to decrease in pressure, a FAIL alarm will sound.

After the sterilization time has elapsed the Vent Solenoid Valve will open and the chamber pressure will drop. The Dump Solenoid Valve opens at approximately 20kPa accelerating the pressure drop to zero. (The exception to this is when the LIQUID cycle is selected. There is no venting until the unit has cooled to prevent boil over from occurring because of the sudden drop in pressure).

The next phase is the drying cycle. A 30 minute period is programmed into the unit to allow for proper drying of a fully loaded sterilizer. This is with the sterilizer door closed; to expedite drying crack the door open approximately one inch. Loads should dry in about five minutes with the door opened. Another sterilization cycle is started by depressing CLEAR/START. After the drying cycle is complete, the unit will flash END in the lower display window.

EXPLODED VIEW OF CHAMBER



FITS V8 = FITS VALIDATOR 8
FITS V10 = FITS VALIDATOR 10

SERVICE TIP - STEAM SENSOR

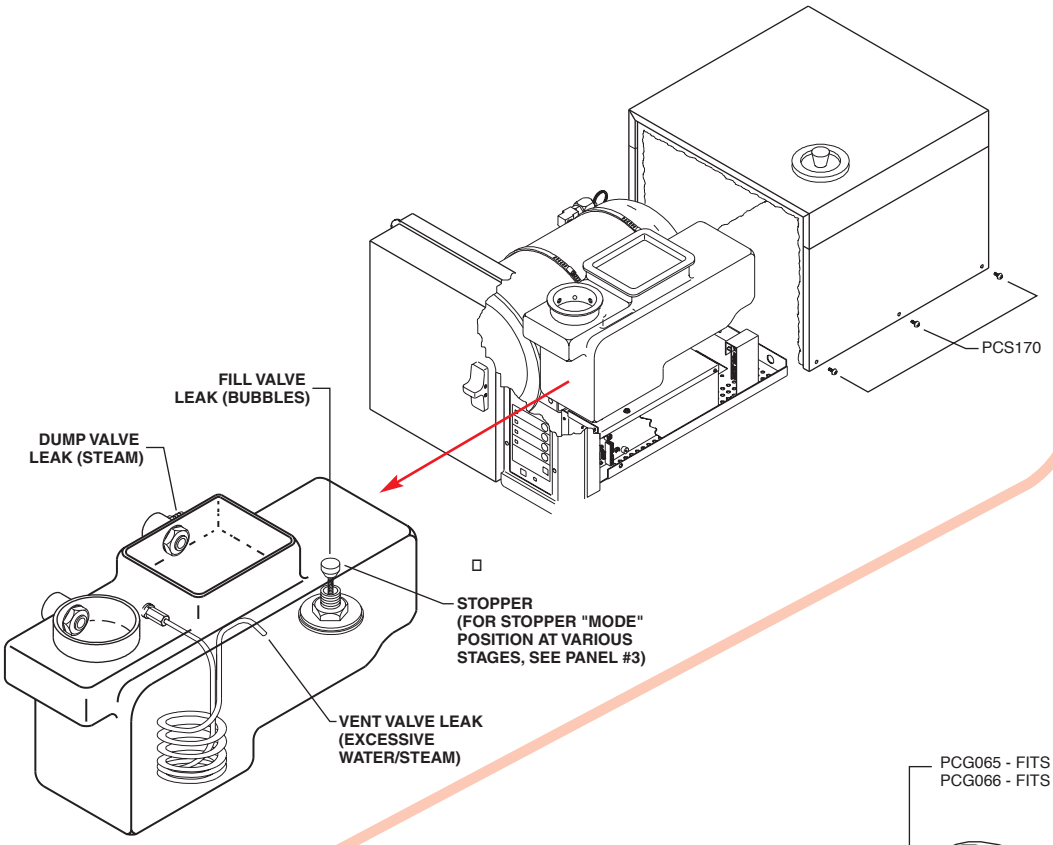
If you are servicing the Steam Sensor plumbing of the Validator 8 or 10 with the Steam Sensor located on the outside of the chamber with plumbing as shown in Figures A or B below, it is necessary to replace the plumbing with the Steam Sensor Upgrade Kit (RPI Part #PCK214 - Figure C). The Kit includes the Block that accommodates the larger-sized Steam Sensor Body that is currently sold by the OEM and RPI.

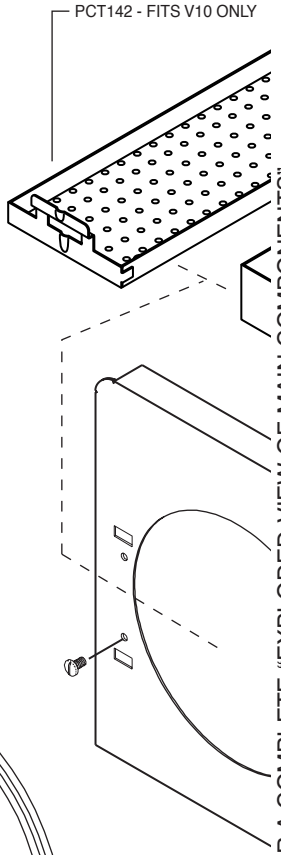
FIGURE A

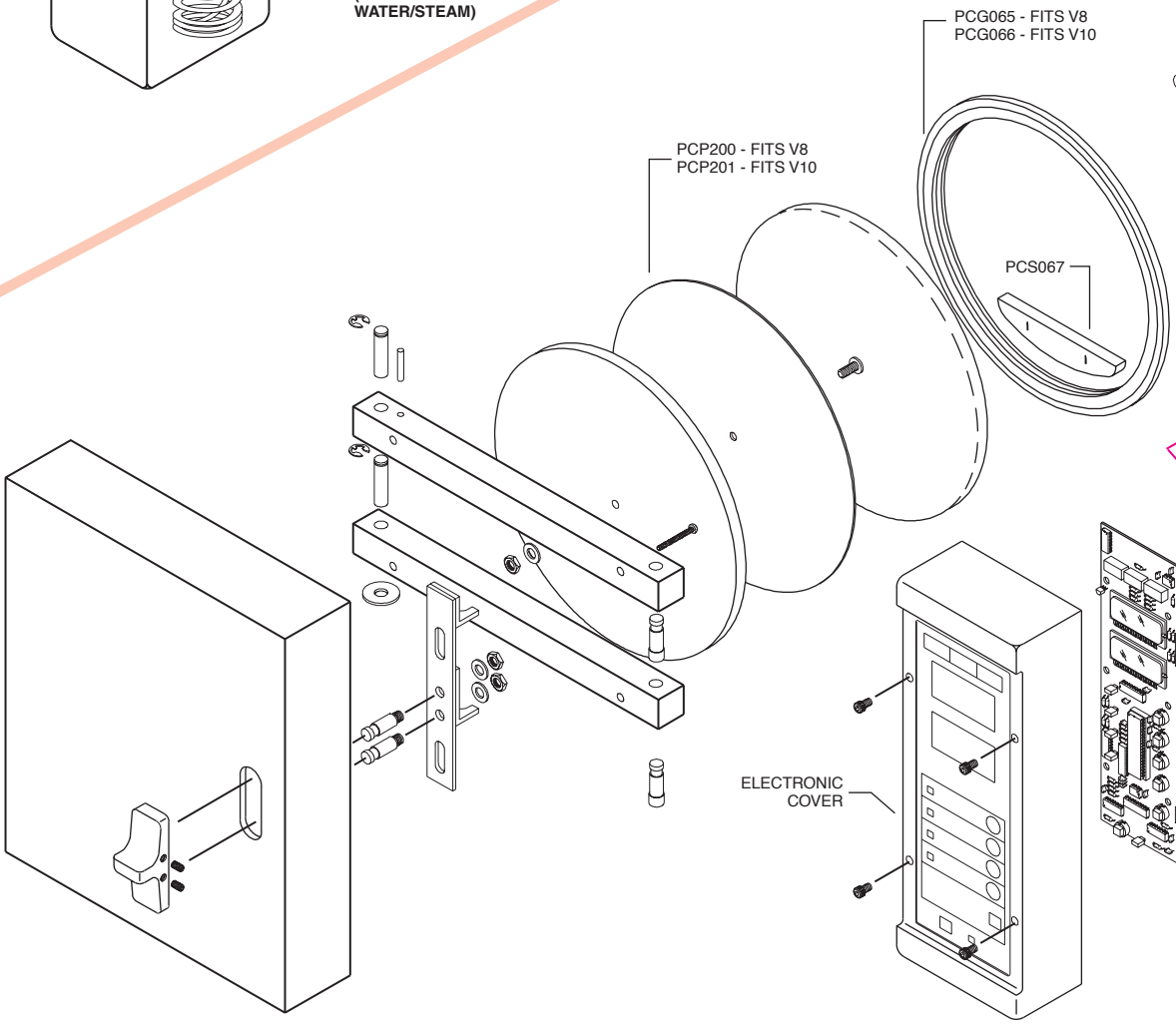
FIGURE B

FIGURE C

WATER RESERVOIR LEAK IDENTIFICATION

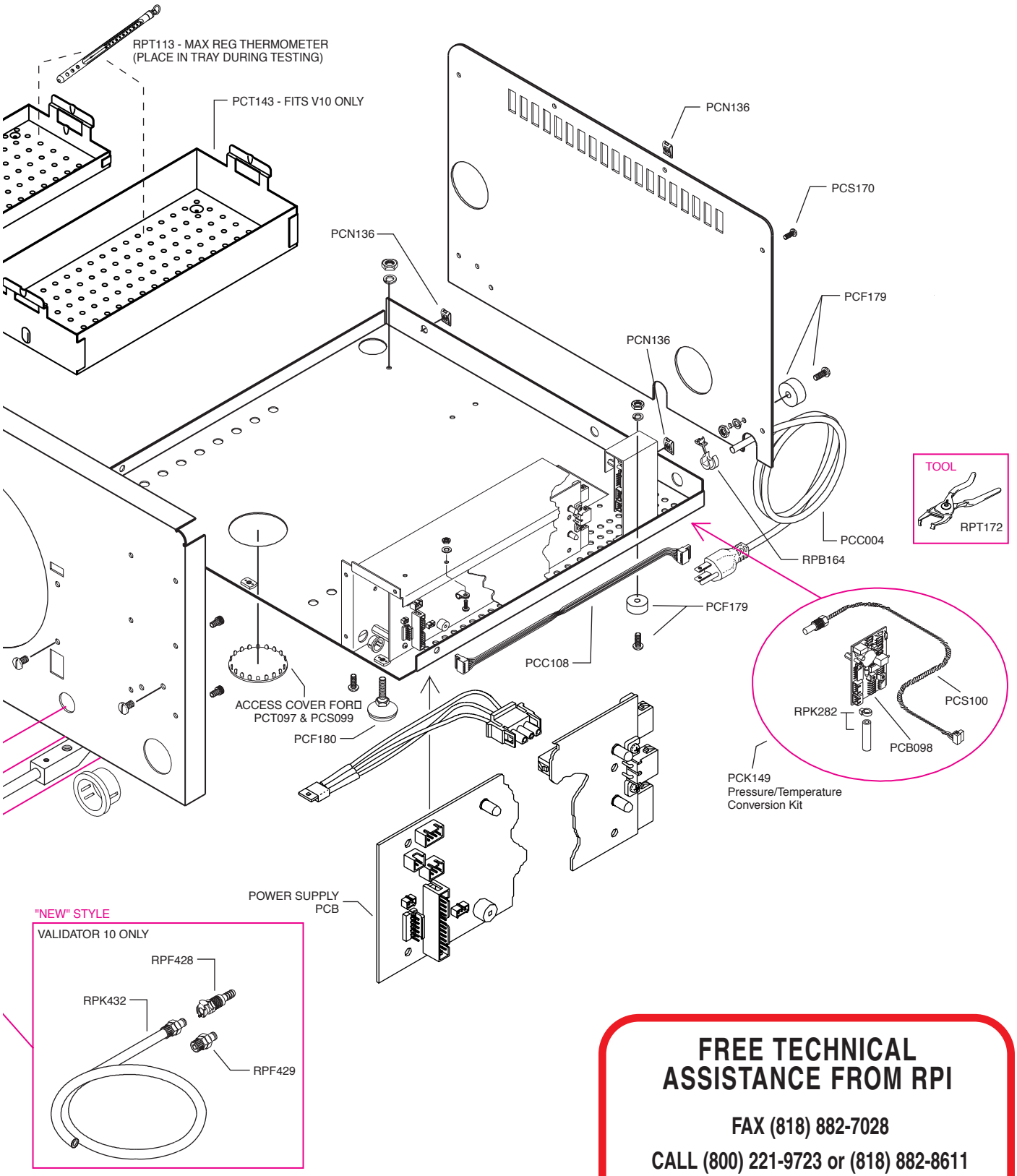






ALIGN PAGE 6 WITH THIS EDGE FOR A COMPLETE "EXPLODED VIEW OF MAIN COMPONENTS"

EXPLODED VIEW OF MAIN COMPONENTS



ALIGN PAGE 5 WITH THIS EDGE FOR A COMPLETE "EXPLODED VIEW OF MAIN COMPONENTS"

FITS V8 = FITS VALIDATOR 8
FITS V10 = FITS VALIDATOR 10

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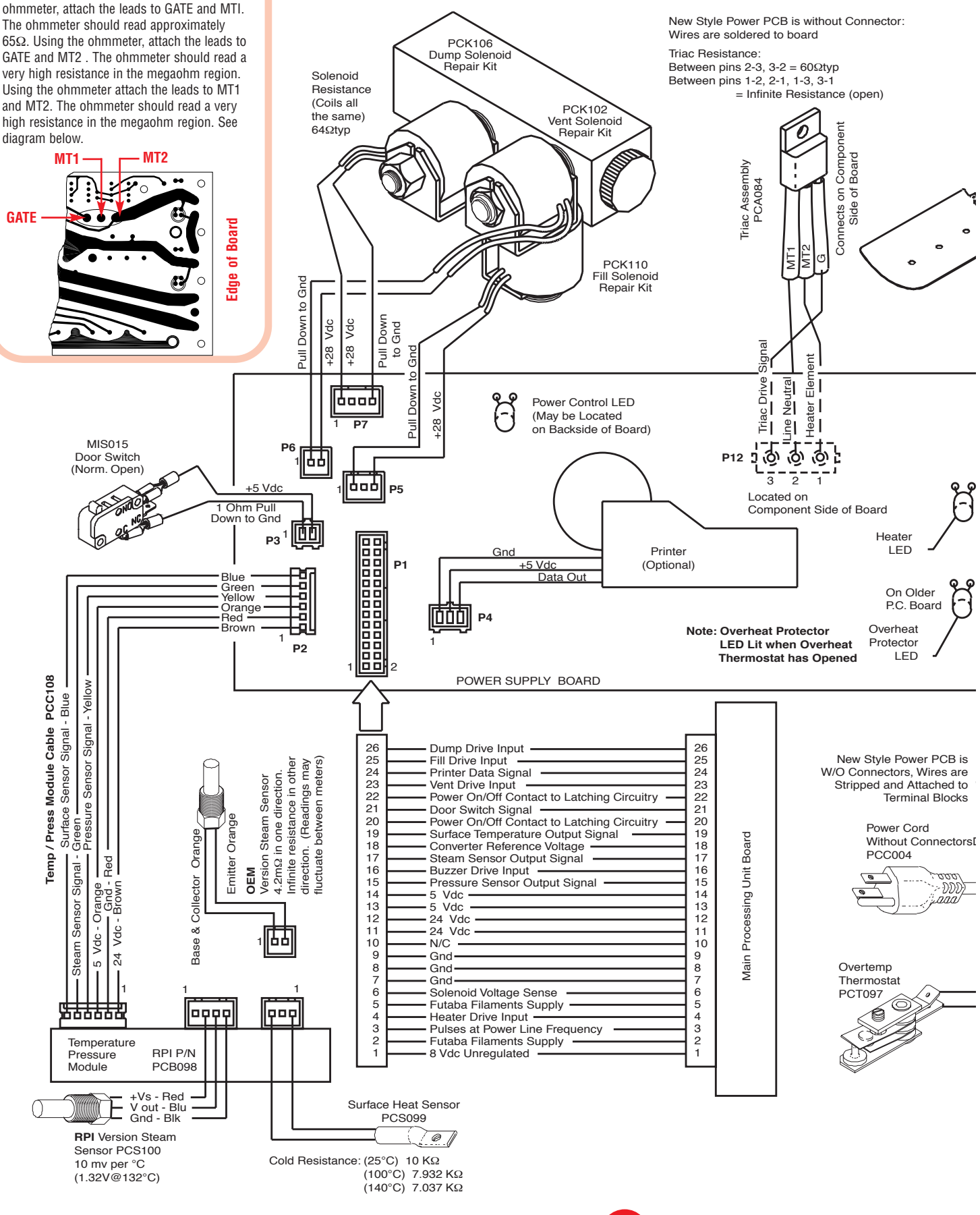
BLOCK DIAGRAM

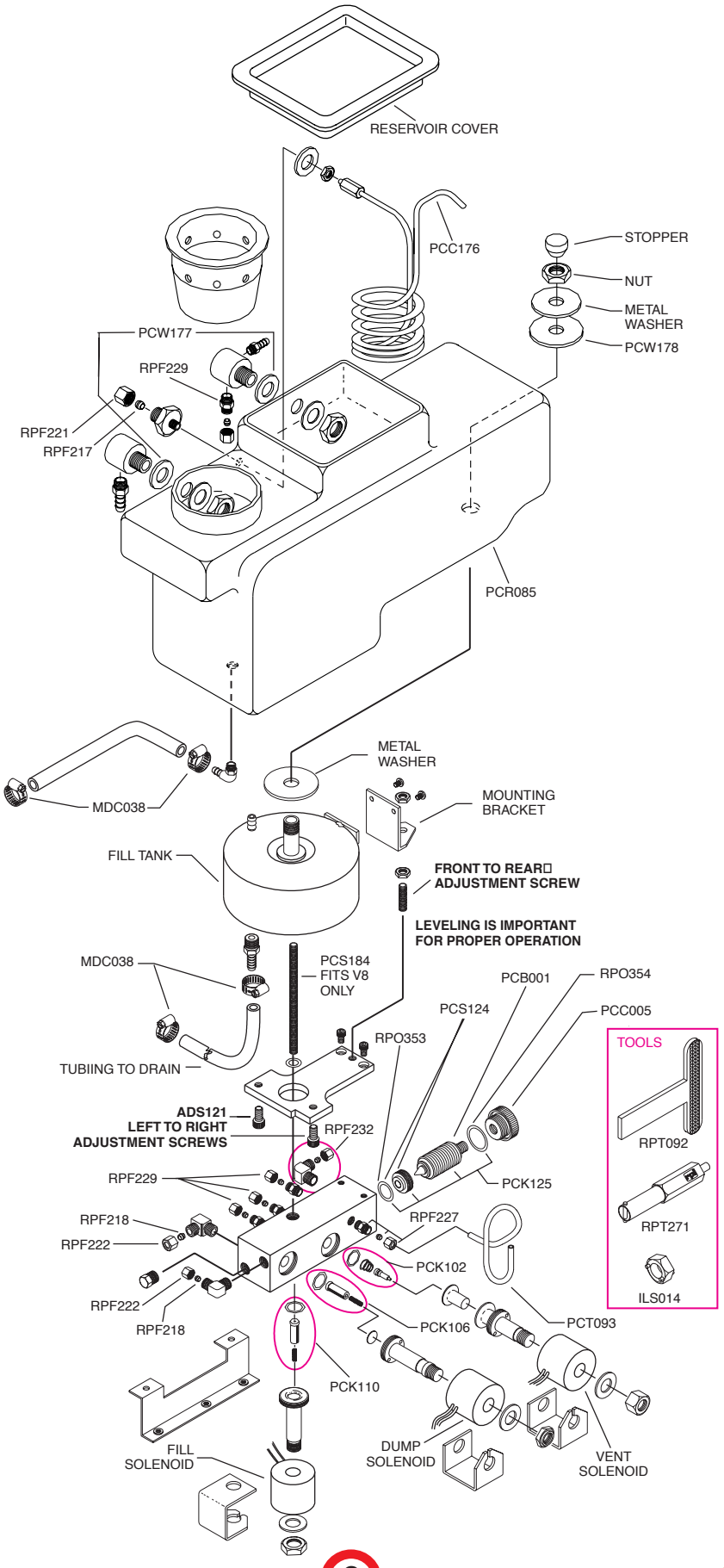
QUICK & EASY WAY TO CHECK THE TRIAC

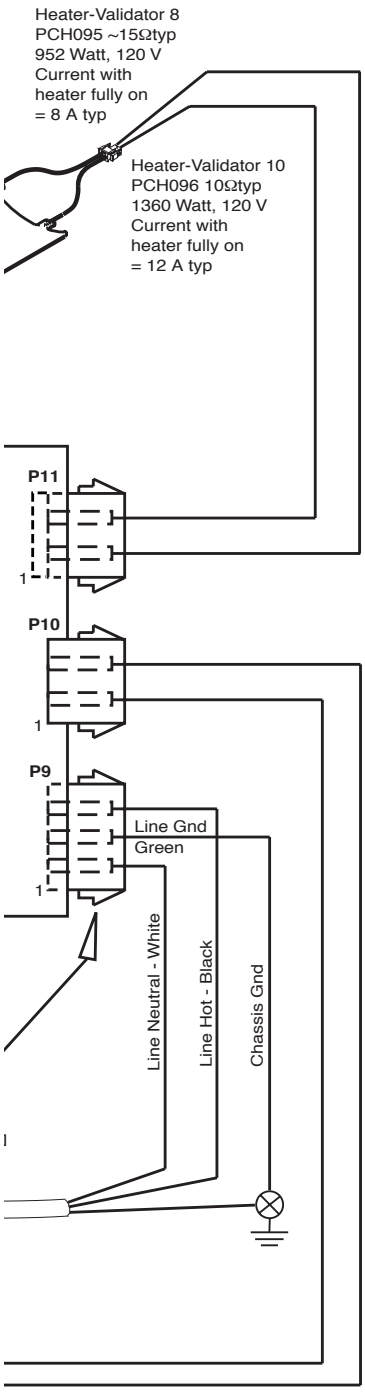
Shut machine off. Disconnect power. Using the ohmmeter, attach the leads to GATE and MTI. The ohmmeter should read approximately 65Ω. Using the ohmmeter, attach the leads to GATE and MT2 . The ohmmeter should read a very high resistance in the megaohm region. Using the ohmmeter attach the leads to MT1 and MT2. The ohmmeter should read a very high resistance in the megaohm region. See diagram below.



ALIGN PAGE 8 WITH THIS EDGE FOR A COMPLETE VIEW OF THE "BLOCK DIAGRAM"

WATER RESERVOIR & MAIN VALVE BLOCK EXPLODED VIEW





ALIGN PAGE 7 WITH THIS EDGE FOR A COMPLETE VIEW OF THE "BLOCK DIAGRAM"

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THIS CHART LISTS ALL OF THE RPI PARTS (AS OF JANUARY, 2002) THAT FIT THE PELTON & CRANE VALIDATOR 8 & 10 STERILIZERS

OEM PART #	RPI PART #	DESCRIPTION	VALIDATOR 8	VALIDATOR 10
004004	RPO354	AIR VALVE O-RING (Old RPI Part #PCO034)	•	•
004018	PCS124	VALVE SEAT & BODY FITS VALIDATOR 8 - SERIAL #10195 & ABOVE FITS VALIDATOR 10 - SERIAL #2258 & ABOVE	•	•
004048	PCB001	BELLOWS	•	•
004076	PCN136	SPEEDNUT	•	•
004146	PCV052	SAFETY RELIEF VALVE FITS VALIDATOR 8 - SERIAL #1001-9771	•	
004228	PCC005	BELLOWS CAP	•	•
004288	PCC004	POWER CORD WITHOUT CONNECTORS	•	•
019615	PCT097	OVERHEAT THERMOSTAT	•	•
019691	PCC108	TEMP/PRESS MODULE CABLE	•	•
019698	PCR085	WATER RESERVOIR WITH RIGHT ANGLE FITTING	•	•
019751	PCS184	VALVE FILL STEM	•	
019764	RPI269	CHAMBER INSULATION EQUIVALENT SUBSITUTE, SEE RPI CATALOG FOR DETAILS.		•
019769	PCH096	HEATER & PLUG ASSEMBLY		•
019779	PCA084	TRIAC ASSEMBLY	•	•
019813	PCH095	HEATER & PLUG ASSEMBLY	•	
019818	RPI268	CHAMBER INSULATION EQUIVALENT SUBSITUTE, SEE RPI CATALOG FOR DETAILS.	•	
019822	PCT093	PRESSURE SENSOR TUBE	•	•
019855	PCS099	SURFACE HEAT SENSOR	•	•
022060	RPT092	VALVE SEAT WRENCH FITS VALIDATOR 8 - SERIAL #10195 & ABOVE FITS VALIDATOR 10 - SERIAL #2258 & ABOVE	•	•
023340	PCK149	PRESS/TEMP CONVER KIT EQUIVALENT SUBSITUTE, SEE RPI CATALOG FOR DETAILS.	•	•
024982	PCW178	RESERVOIR WASHER (SILICONE)	•	•
025580	PCK111	AIR RELEASE VALVE SEAT KIT FITS VALIDATOR 8 - SERIAL #10195 & ABOVE FITS VALIDATOR 10 - SERIAL #2258 & ABOVE	•	•
026169	ILS014	WRENCH NUT/HEX SPACER	•	•
026356	PCK102	VENT PLUNGER KIT	•	•
026357	PCK110	FILL PLUNGER KIT	•	•
026358	PCK106	DUMP PLUNGER KIT	•	•
1539241	PCG065	DOOR GASKET (Old OEM Part #019613)	•	
1539308	PCF179	RUBBER FOOT ASSEMBLY EQUIVALENT SUBSITUTE, SEE RPI CATALOG FOR DETAILS.	•	•
1539340	PCT143	INSTRUMENT TRAY (LARGE) (Old OEM Part #004430)		•
1539357	PCT142	INSTRUMENT TRAY (SMALL) (Old OEM Part #004429)		•
1539399	RPF429	MALE QUICK CONNECT FITTING (WHITE)		•
1539407	PCG066	DOOR GASKET (Old OEM Part #019763)		•
1539514	PCP200	INSULATION PAD (Old OEM Part #021812)	•	
1539563	PCW177	MANIFOLD WASHER (SILICONE) (Old OEM Part #024983)	•	•
1539647	PCB122	BAND (12") (Old OEM Part #004325)		•
1539720	PCP201	INSULATION PAD (Old OEM Part #019832)		•
1539936	PCS170	BLACK COVER SCREW	•	•
1881015	MIS015	DOOR SWITCH	•	•
1881023	PCT010	FILL CHAMBER TUBE (Old OEM Part #004371)	•	•
1881130	RPF428	FEMALE QUICK CONNECT FITTING (WHITE)		•
1881031	PCF009	FILTER-FILL LINE (Old OEM Part #004326)	•	•
1881106	PCC176	CONDENSATION COIL W/COMP FITTING	•	•
1881122	PCF180	FRONT LEVELING FOOT	•	•
3000119	PCB123	BAND (10") (Old OEM Part #004080)	•	
3003683	RPK432	DRAIN TUBE ASSEMBLY KIT (SMALL)		•
3322281	PCS067	SPACER (DOOR) (Old OEM Part #019678)	•	•
4205055	AMV097	SAFETY RELIEF VALVE (Old OEM Part #1881007)	•	•
N/A	PCB098	PRESSURE/TEMPERATURE BOARD	•	•
N/A	PCK125	AIR RELEASE BELLOWS PM KIT FITS VALIDATOR 8 - SERIAL #10195 & ABOVE FITS VALIDATOR 10 - SERIAL #2258 & ABOVE	•	•
NA	PCK214	STEAM SENSOR UPGRADE KIT	•	•
N/A	PCS100	STEAM SENSOR ASSEMBLY	•	•
N/A	RPB164	STRAIN RELIEF BUSHING	•	•
N/A	RPK282	PRESSURE TUBE KIT	•	•
N/A	RPT113	MAX REGISTER THERMOMETER	•	•
N/A	RPT172	STRAIN RELIEF BUSHING PLIERS	•	•
N/A	RPT271	VALVE SEAT TOOL	•	•